



Abstract of the Disclosure

An apparatus for manufacturing a carbon nanotube ~~of the present invention includes:~~ includes:
at least two electrodes whose tips oppose to each other; a power supply which applies a voltage between the electrodes so as to generate discharge plasma in a discharge area between the electrodes; a plurality of magnets which generates at least one of a magnetic field having lines of magnetic force in multiple directions or a magnetic field having a component in parallel with the direction of a discharge current in the generation area of the discharge plasma; and a magnet cooling unit which cools the magnets. ~~The carbon nanotubes are manufactured by cooling the magnets. With this arrangement, there is provided a manufacturing apparatus and method for a carbon nanotube, which can efficiently synthesize carbon nanotubes with extremely low concentration of impurities on an industrial basis, and simultaneously can properly control especially the length of the obtained carbon nanotubes.~~



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